

# TYLER HARSELL

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## EDUCATION

<b>Bachelor of Science Computer Science</b> , University of Missouri 3.7 GPA	Expected May 2024
<b>Computer Science</b> , St. Charles Community College	2020

## TECHNICAL SKILLS

<b>Languages</b>	C, Python, Java, Java Script, SQL, HTML/CSS
<b>Technologies</b>	React, Node.js, Express, MySQL, PostgreSQL, Spring
<b>Developer Tools</b>	Git, GitHub, Postman, Jira, Docker

## EXPERIENCE

<b>Data Engineer</b>	August 2022 - Present
World Agricultural Economic and Environmental Services	<i>Columbia, MO</i>

- Utilizing R, Python, and other tools to automate formerly manual processes in the agricultural and economic forecasting for companies such as Bayer
- Created a new program which led to 1200% faster creation of aggregate data.
- Developed a program that collected, organized, and reported data using Python for the economic analysis of agricultural data in order to make global forecasts.

<b>Software Engineering Intern</b>	May 2022 - July 2022
Enterprise Holdings	<i>St. Louis, MO</i>

- Developed new features and business tools for the Enterprise CarShare team primarily using JavaScript and React in the frontend and Spring Boot, Java, and PostgreSQL in the backend.
- Developed and connected to a new API to gather information about cars to monitor their essential information such as fuel level, immobilizer status, and location. This data was displayed onto a React app.
- Created a tool that used the Twitter API to collect tweets and analyze their sentiment and then visualized that sentiment data using natural language processing by plotting it onto a map of the US

## PROJECTS

**A \* Pathfinding Visualization.** Built a GUI using Pygames and implemented the A \* Pathfinding algorithm to select two points and draw the shortest distance between those points

## EXTRA-CURRICULAR ACTIVITIES

<b>Vice President</b>	December 2022 - Present
Missouri Computing Association	

- Supervise the administrative functions of the student organization from facilitating between students and faculty to developing a club budget in excess of \$80,000.

<b>Executive Board Member</b>	August 2021 - Present
Tiger Hacks Hackathon	

- Member of the technology team that created the website to handle all data and verify participant information as well as organized the logistics and finances of the three day event. This included setting up the catering schedule as well as reserving space and getting in touch with sponsors.

<b>Special Interest Group Leader</b>	August 2021 - Present
Missouri Computing Association	

- Led a group of 20 freshmen introducing them to the fundamentals of computer science.